SPM Flex

Advanced Capabilities.
Ready When You Are!

Honeywell

SPM Flex

Honeywell

Overview	The newest ChemCassette tape-based gas detector for low level toxics from Honeywell Analytics. Building off the legacy of the original SPM, the SPM Flex has been redesigned from the ground up to provide maximum safety and productivity for users.
Key Differentiators	• ***Highly Automated To Improve Safety, Accuracy, And Usability*** • ***Flexible Application And Rugged Design*** • ***Easy To Service, And Backed By Honeywell***
Detection Type	Tape-based with advanced self monitoring optics design
Gases Detected	Hydrides, Mineral Acids, Oxidizers, Diisocyanates, and More[1]
Installation Type	Fixed Or Portable With Same Base Unit
Flow System	Automatic flow control; sample up to 100 ft
Communications	Relays, 4-20mA, Ethernet, Modbus TCP/IP, USB
Operating Conditions	0°C to 40°C, 0-100% Non Condensing Humidity[2]

1. *Contact HA For Latest Gas List Availability*
2. *For Most Gases / Applications. Sample line requires additional hardware to remove moisture in high RH conditions where condensing may occur. Dry conditions may require humidification.*

Newest Member Of The Honeywell Gas Detection Family

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Multiple Use Cases

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Quick Start Up, Ease Of Gas Selection, And Rugged Design Ensure The SPM Flex Is Always Ready When You Need It

An Industry Leading Selection Of Gases - With More On The Way - Ensures You Always Have The Detection You Need

Installable As Both A Fixed And A Portable Unit, The SPM Flex Goes Where You Need It, With A Wide Array Of Communications Protocols To Keep You Informed

Maximum Flexibility For Low-Level Toxics Gases

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Designed For Rapid Response

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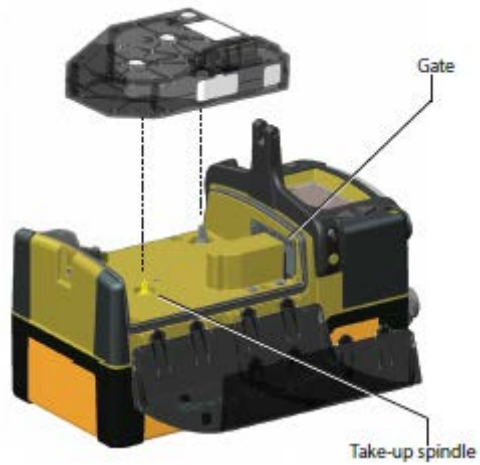
What are minutes worth when responding to an alarm?

Would your users be able to respond in time to prevent an incident from becoming an emergency?

- **Streamlined Steps To Monitor**
  - **Power On:** Rapid boot sequence preps the unit for monitoring
  - **Load ChemCassette:** Simple to use cartridge design means no need to spool or wind tape
  - **Select The Gas:** Onscreen menu automatically shows available gases. Need to monitor for a gas in a different family? Just swap out the ChemCassette tape and choose the new gas
  - **Respond**: Significant automation on the SPM Flex handles the rest, allowing users to focus on the task at hand



Ready To Go In Under 2 Min So You Can Respond Quickly

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Automation Of Critical Functions

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What is the risk of user error when trying to monitor for gas?

What is the value of a piece of equipment that's clear and easy to use?

- **RFID Populates Gas Information**
  - All necessary information about a ChemCassette is stored on the built in RFID, including:
    - All available gases for that ChemCassette
    - Default alarm levels for each gas
    - Optimal flow settings for the tape
  - Gas data is stored on the ChemCassette, so you always have the latest information - including gas curves and alarm levels - no need to for manual intervention

- **Automating Calibration**
  - **Automatic Flow Control**: the SPM Flex optimizes the flow, eliminating the need for a user to adjust it prior to use
  - **Self Monitoring Optics**: the optics system has been designed to automatically monitor output, eliminating the need for calibration with a stain card.

Eliminating Potential Mistakes = Keeping Users Safer

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Easy To Use Interface

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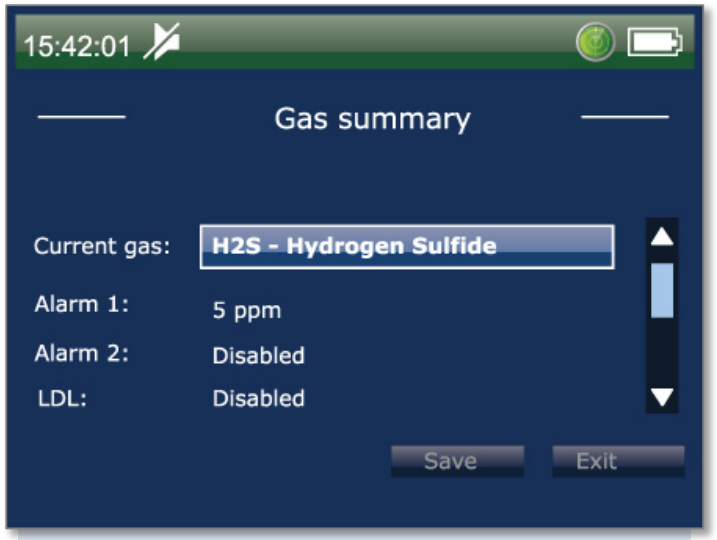
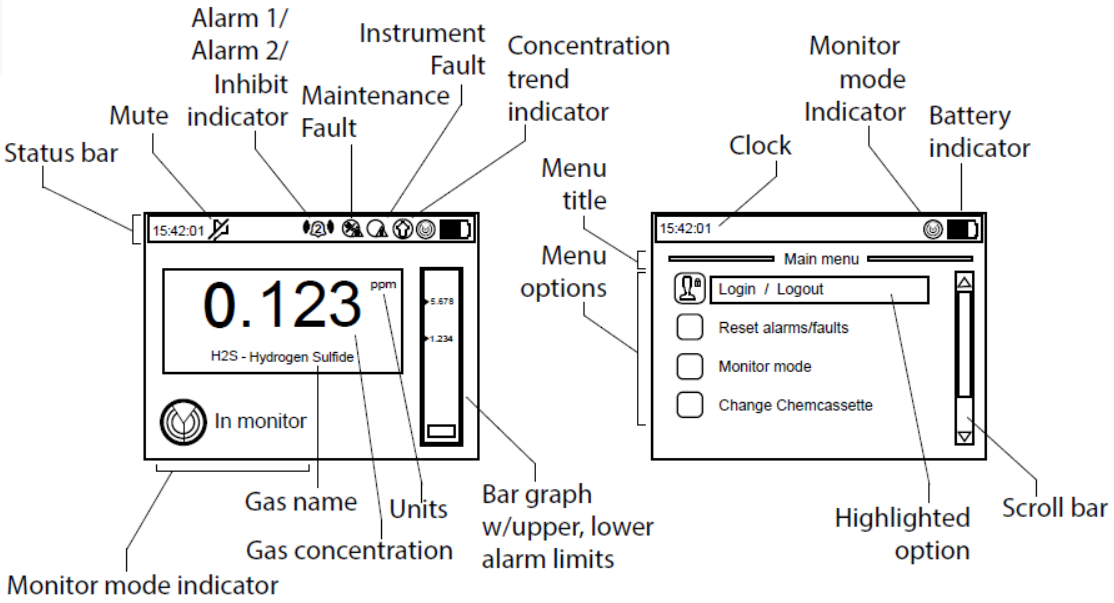


How much training does your current equipment require?

How many different users might need to access a piece of equipment?

- **Intuitive Operation And Menus**
  - Gas selection tables use abbreviation and gas name which reduces the likelihood of selecting the wrong gas
  - Gas concentration bar gives clear status vs. alarm levels
  - Common language menus
  - Universal green / yellow / red status indication



Advanced Capabilities, No Expertise Required

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Clear Status Indications

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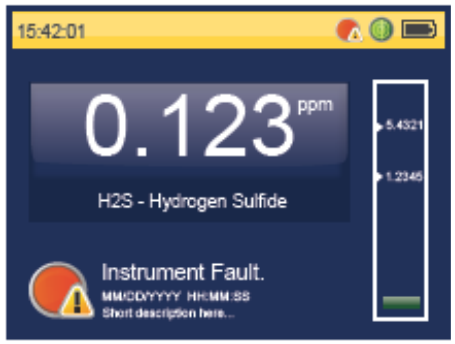
Is your current device easy to read?

Does it have clear notifications for faults and warnings?

Can you access it from anywhere or reset / acknowledge faults and alarms?

How much time is wasted looking for the point of gas detection with an issue?

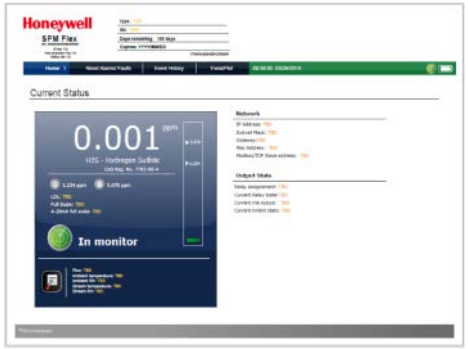


Local LCD

The crisp, full color LCD display is easy to read and interpret, clearly showing gas concentration and other data, no matter what the conditions.

LED Status Bar

Thanks to the color-coded LED bar on top of the SPM Flex, you can see alarm status, even from across the factory floor.



Web Page Access

Know what your units is doing in real time - even if you're remote - with full webpage access built right in, and even download event history and other details.

Crisp And Clear From Up Close Or Far Away

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Flexible Configuration

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Does supporting different fleets for fixed vs. portable use…

… force you to stock more spare parts?

… increase training requirements?

… make it harder to track maintenance?

- **Portable Configuration**
  - Includes Handle Assembly, Clean-Room Suitable Shoulder Strap, Battery, Power Supply, Regional Power Cord, CD, Quick Start Guide
  - Optional Accessory: Sample Wand Kit

Same Base Kit

- **Fixed Configuration**
  - Include Standard Wall Mounting Bracket, Battery, Power Supply, Regional Power Cord, CD, Quick Start Guide
  - Optional Accessory: Weather Shield

Flexible Configurations Lowers Cost Of Ownership

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Fully Configurable

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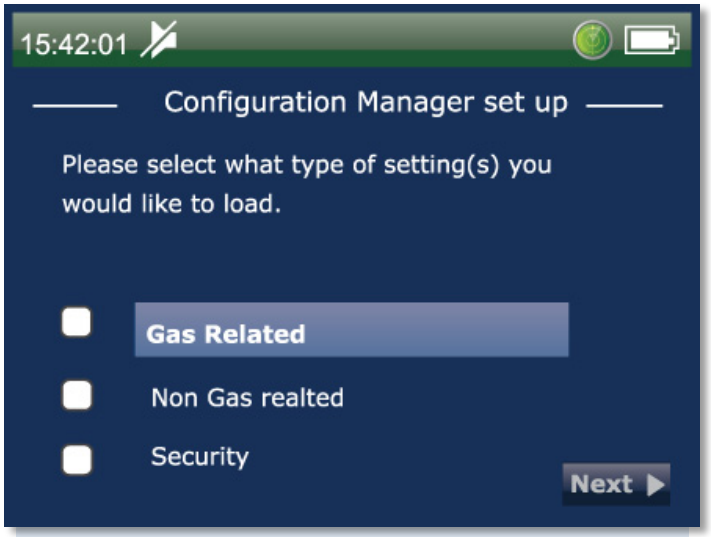


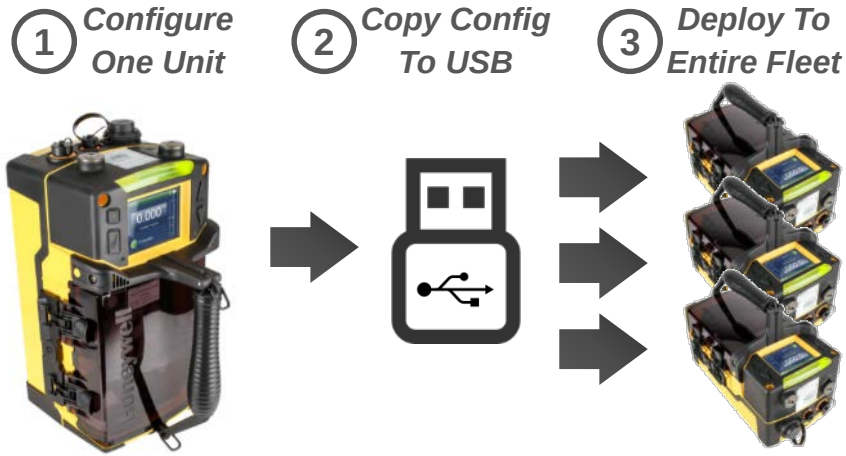
Is it easy to update your equipment for new standards?

Are site specific monitoring standards hard to enforce?

How much time does it take to deploy equipment configurations across your fleet?

- **Customizable Across Wide Range Of Options**
  - **General**: Power Up Defaults, Unit ID's, Software Updates
  - **Alarms**: LDL, Alarm 1 & 2 Set-Points, (Non-) Latching
  - **Communications**: 4-20mA Min / Max Values, Normal Relay State, Ethernet / Modbus TCP Options
  - **TWA Mode**: Fixed Start Or Floating, Duration
  - **Outputs:** Screen Brightness, Alarm Volumes

- **Rapid Configuration Deployment**



Quick And Easy To Update Software And Configuration

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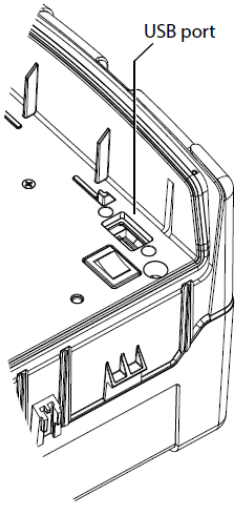
Built In Data Logging

Do you need a record of gas events?

Would it be helpful to know what changes were made, and when?

Is data easy to extract from your current unit… or even available?

- **Standard Automatic Data Logging**
  - The SPM Flex stores up to 3 months of event history
  - Alarms, Gas Concentrations, and Configuration Changes - along with corresponding date and time information - are all saved for review later
  - Easily export the history for analysis or archiving via the USB port, or download it from the built-in webpage



Zero concentration readings are recorded every 15 seconds

With gas present, recordings are made every 1 second. Note that due to the increased record frequency during gas events the amount of prior history that can be stored is shortened.

Data Logging Ensures You Always Know What Happened

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Multiple Security Levels

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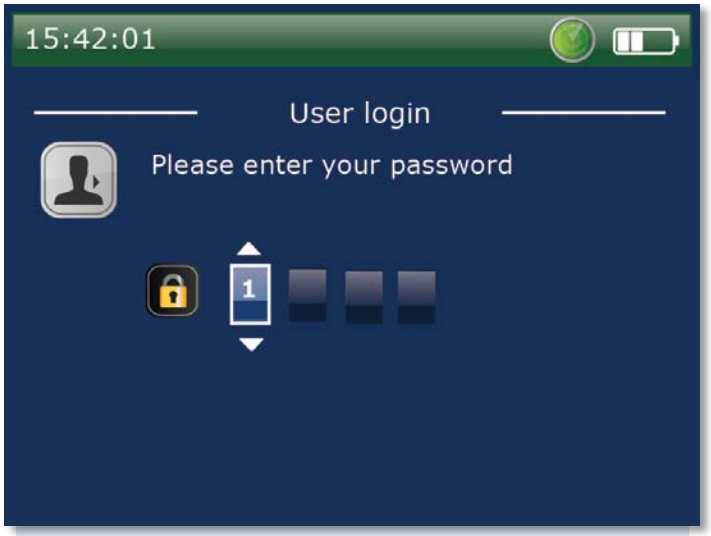

Can multiple personal access the unit?

Are you sure that everyone working with a piece of equipment know how to use it?

Access Rights	Security Levels					
	0 Not Logged In	1 Routine Maintneance	2 Advanced Maintneance	3 Power User	4 Admin	5 Factory Service
Log in/log out	●	●	●	●	●	●
Reset alarms and faults	●	●	●	●	●	●
Review mode	●	●	●	●	●	●
Limited maintenance access		●	●	●	●	●
Change Chemcassette (to same type)		●	●	●	●	●
Testing			●	●	●	●
Maintenance			●	●	●	●
Limited setup			●	●	●	●
Full setup				●	●	●
Change Chemcassette (to any type)				●	●	●
Security					●	●
Program update					●	●
Factory service menu (Honeywell personnel only)						●

Security Levels Help Protect Unauthorized Or Unsafe Access

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Rugged Design

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Is it hard to turn small knobs or press small buttons in hazmat gear?

Are challenging environmental conditions hard on your equipment?

Is your current equipment Clean room ready or hose down safe?

- **Designed With The User In Mind**
  - The SPM Flex is ergonomically designed to be easy to carry, and the display faces up so it's easy to read even if you have it suspended by the shoulder strap.
  - Wearing industrial gloves? The monitor has large easy to use buttons even with protective equipment on.
  - Hazmat suit obscuring your vision? The large color display, and status bar means you'll always be able to see what's going on.

- **Stands Up To Harsh Conditions**
  - Need to install the SPM Flex outside? No problem! Thanks to it's fully weatherproof case it's ready to go.
  - Exposed to toxic gas or caustic liquid? Just hose it down.
  - The SPM Flex has a Teflon coating that doesn't attract dust, so it's cleanroom and decontamination wipe safe
  - A sturdy design means the SPM Flex is ready for years of hard use with uncompromising accuracy

Purpose Built For The Users We Serve

Note: The SPM Flex is designed for use in temperatures 0 to 40ºC and non-condensing humidity of 0 to 100%, although the sample line may require additional hardware to add / remove moisture. Refer to the manual for more information.

Easily Serviceable

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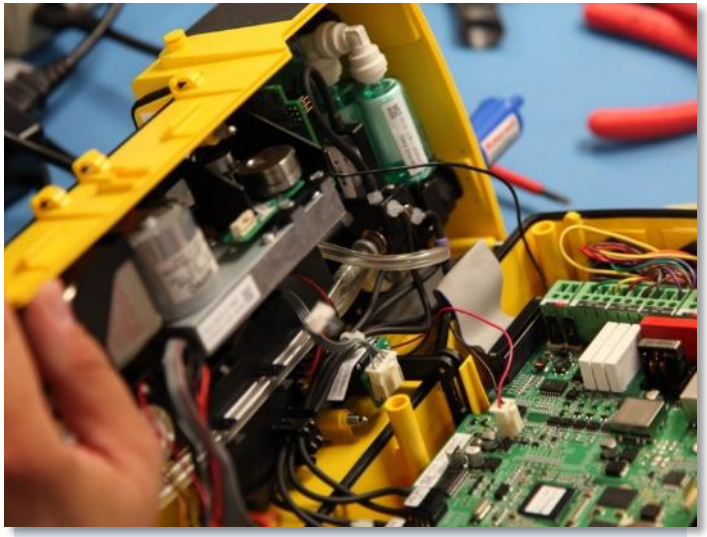

How easy is it to service your current equipment?

What is the required maintenance today and how much time does that take?

- **Designed With Serviceability In Mind**
  - **Highly user serviceable**: Pump, filters, stepper motor, and gate motor are all ***serviceable by the end user in under 5 minutes***
  - **Backed by the experts at Honeywell**: Send in your units only when you need to *

** Comprehensive inspection, cleaning, and systems tests are recommended periodically, depending on usage, site conditions, and gases monitored.*

Maintenance Intervals (months)			
Description	**3**	**6**	**12**
Authorized Honeywell preventive maintenance			●
Replace the end-of-line filter	●		
Check pump			●*
Check for system leaks		●	
Verify optic system response	●		
Replace internal filters			●
Check stepper motor	as needed		
Check gate motor	as needed		
Clean the exterior surfaces	as needed		
Replace real-time coin battery	3 years or as needed		
Replace main battery	return the detector to Honeywell Analytics		

*or as needed

Modular Design Improves Serviceability

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Gases

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Gas List*

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Family	Gas	Range	TLV[1]		LAL	Default Alarm		Response time (T50) at 2TLV gas conc.(sec)	Max. Sample Tubing length (m)	Sample Line Particulates Filter[2]	ChemCassette[10]				Opti-mum Temp range (°C)	Optimum %RH range for best accuracy[7,8]
						A1	A2				Name	P/N (30-90d)	P/N (14d)	Allowable Days After First Use[11]		
Hydrides	Arsine (AsH_3)	0.5-500ppb	5 ppb		1 ppb	2.5 ppb	5 ppb	55	30	A	Flex CC XP Hydrides	1265-3000	1265-4000	90	0-40	10-70% RH [4,6]
	Phosphene (PH_3)	3-3000 ppb	300 ppb		5 ppb	150 ppb	300 ppb	6								30-70% RH [4,6]
	Diborane (B_2H_6)	5-1000 ppb	100 ppb		10 ppb	50 ppb	100 ppb	14								30-70% RH [4,6]
	Silane (SiH_4)	0.03 - 50 ppm	5 ppm		0.05 ppm	2.5 ppm	5 ppb	13								34-50% RH [4,6]
	Germane (GeH_4)	50-2000 ppb	200 ppb		100 ppb	100 ppb	200 ppb	245								40-50% RH [4,6]
	Hydrogen Selenide (H_2Se)	2-500 ppb	50 ppb		5 ppb	25 ppb	50 ppb	14								10-60% RH [4,6]
	Hydrogen Sulphide (H_2S)	0.001-9.999 ppm	1 ppm		0.005 ppm	0.5 ppm	1 ppm	7								10-75% RH [4,6]
Mineral Acids	Hydrogen Fluoride (HF)	0.02-20 ppm	0.5 ppm	2 ppm STEL-C	0.03 ppm	1 ppm	2 ppm	7	5	B, C	Flex CC XP Mineral Acids	1265-3001	1265-4001	90	0-35	15-75% RH [3,6]
	Hydrogen Chloride (HCl)	0.02-20 ppm	2 ppm	STEL-C	0.03 ppm	1 ppm	2 ppm	5								30-50% RH [3,6]
	Hydrogen Bromide (HBr)	0.02-10 ppm	2 ppm	STEL-C	0.03 ppm	1 ppm	2 ppm	5								20-50% RH [3,6,9]
	Boron Trifluoride (BF_3)	0.05-10 ppm	1 ppm	2015 NIC (0.1ppm TWA; 0.7ppm STEL/C)	0.1 ppm	0.5 ppm	1.0 ppm	5								15-60% RH [3,6]
Mineral Acids (export unre-stricted)	Hydrogen Fluoride (HF)	0.4-20 ppm	0.5 ppm	2 ppm STEL-C	0.4 ppm	1 ppm	2 ppm	7	5	B, C	Flex CC-U XP Mineral Acids	1265-3012	1265-4012	90	0-35	15-75% RH [3,6]
	Hydrogen Chloride (HCl)	0.02-20 ppm	2 ppm	STEL-C	0.03 ppm	1 ppm	2 ppm	5								30-50% RH [3,6]
	Hydrogen Bromide (HBr)	0.02-10 ppm	2 ppm	STEL-C	0.03 ppm	1 ppm	2 ppm	5								20-50% RH [3,6,9]
	Boron Trifluoride (BF_3)	0.05-10 ppm	1 ppm	2015 NIC (0.1ppm TWA; 0.7ppm STEL/C)	0.1 ppm	0.5 ppm	1.0 ppm	5								15-60% RH [3,6]
Oxidizers	Chlorine (Cl_2)	0.005 - 5 ppm	0.5 ppm		0.02 ppm	0.25 ppm	0.5 ppm	7	30	B, C	Flex CC XP Chlorine	1265-3002	1265-4002	90	0-40	30-55% RH [4,6]
	Chlorine (Cl_2)	0.01-5 ppm	0.5 ppm		0.05 ppm	0.25 ppm	0.5 ppm	9			Flex CC Fluorine/Oxidizers	1265-3004	1265-4004	30	0-40	5-75% RH
	Fluorine (F_2)	0.01-10 ppm	1 ppm	0.1 ppm OSHA PEL	0.05 ppm	0.5 ppm	1.0 ppm	5	6							0-85% RH
	Nitrogen Dioxide (NO_2)	0.03-10 ppm	0.2 ppm		0.05 ppm	0.1 ppm	0.2 ppm	56	30							10-70% RH [3,6]
	Chlorine Dioxide (ClO_2)	20-1000 ppb	100 ppb		25 ppb	50 ppb	100 ppb	36	15							5-90% RH

Industry Leading Gas Selection

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** Gas List / Detection Levels Subject To Change. Check With Product Management For Latest Release Schedule*

Gas List (Continued)*

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Family	Gas	Range	TLV[1]		LAL	Default Alarm A1	Default Alarm A2	Response time (T50) at 2TLV gas conc.(sec)	Max. Sample Tubing length (m)	Sample Line Particulates Filter[2]	ChemCassette[10] Name	ChemCassette[10] P/N (30-90d)	ChemCassette[10] P/N (14d)	ChemCassette[10] Allowable Days After First Use[11]	Optimum Temp range (°C)	Optimum %RH range for best accuracy[7,8]
Amines	Ammonia (NH_3)	0.01-150 ppm	25 ppm		0.05 ppm	12.5 ppm	25 ppm	5	30	B, C	Flex CC XP Ammonia	1265-3003	1265-4003	90	0-35	0-90% RH [4]
	Dimethylamine (DMA) (H_2Cl_2Si)	0.5-50 ppm	5 ppm		0.1 ppm	2.5 ppm	5 ppm	10								5-90% RH [4]
	Tetrakis (Dimethylamido) Titanium (TDMAT) ($C_8H_{24}N_4Ti$)	0.01 -20 ppm	n/a		0.05 ppm	1 ppm	2 ppm	14								5-90% RH [4]
	Trimethylamine (TMA) (C_3H_9N)	0.5-50 ppm	5 ppm		0.1 ppm	2.5 ppm	5 ppm	10								0-90% RH [4]
Phosgene	Phosgene ($COCl_2$)	2-2000 ppb	100 ppb		5 ppb	50 ppb	100 ppb	15	30	A	Flex CC XP Phosgene	1265-3007	1265-4007	90	0-40	1-95% RH
Diisocya-nates	Toluene Diisocyanate (TDI) ($C_9H_6N_2O_2$)	0.5-200 ppb	1 ppb	2015 NIC (1ppb TWA; 5ppb STEL)	0.6 ppb	1 ppb	2 ppb	10	0.15	no filter	Flex CC Diisocyanates	1265-3006	1265-4006	30	0-40	25-65% RH [4]
	Methylene Bisphe-nyl Isocyanate (MDI) ($C_{15}H_{10}N_2O_2$)	2-60 ppb	5 ppb			2.5 ppb	5 ppb									TBD
	Hexamethylene Diisocyanate (HDI)($C_8H_{12}N_2O_2$)	0.5-150 ppb	5 ppb		0.6 ppb	2.5 ppb	5 ppb	30								15-85% RH [4]
Hydrazines	Hydrazine (N_2H_4)	3-1000 ppb	10 ppb		5 ppb	5 ppb	10 ppb	130	3							15-90% RH [3]
	Monomethyl Hydrazine (MMH) (CH_6N_2)	3-2000 ppb	10 ppb			5 ppb	10 ppb		5	no filter	Flex CC Hydrazines	1265-3008	1265-4008	30	0-40	TBD
	Dimethyl Hydra-zine (UDMH) ($C_2H_8N_2$)	3-5000 ppb	10 ppb			5 ppb	10 ppb		5							TBD
Hydrogen Cyanide (HCN)		0.2-30 ppm	4.7 ppm		0.5 ppm	2.4 ppm	4.7 ppm	15	30	A	Flex CC Hydrogen Cyanaide	n/a	1265-4009	15	0-30	15-70% RH
Sulphur Dioxide (SO_2)		10-2500 ppb	250 ppb		25 ppb	120 ppb	250 ppb	12	30	B, C	Flex CC Sulfur Dioxide	1265-3005	1265-4005	30	0-40	25-90% RH
Ozone (O_3)		10-1000 ppb	100 ppb			50 ppb	100 ppb		31	no filter	Flex CC Ozone	1265-3011	1265-4011	30	0-40	15-90% RH
Hydrogen Peroxide (H_2O_2)		0.1-3 ppm	100 ppb				ppb				Hydrogen Peroxide	1265-3010	1265-4010	30	0-40	TBD

Under Development- Expected April 2015

Under Development- Expected March 2015

** Gas List / Detection Levels Subject To Change. Check With Product Management For Latest Release Schedule*

Industry Leading Gas Selection

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Ordering

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How To Order

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Base Unit (Required)

Fixed	SPMF-F1AU	SPM Flex Fixed Unit for Australia
	SPMF-F1CH	SPM Flex Fixed Unit for Switzerland
	SPMF-F1DK	SPM Flex Fixed Unit for Denmark
	SPMF-F1EU	SPM Flex Fixed Unit for Europe
	SPMF-F1GB	SPM Flex Fixed Unit for Great Britain
	SPMF-F1JP	SPM Flex Fixed Unit for Japan
	SPMF-F1US	SPM Flex Fixed Unit for North America
Portable	SPMF-P1AU	SPM Flex Portable Unit for Australia
	SPMF-P1CH	SPM Flex Portable Unit for Switzerland
	SPMF-P1DK	SPM Flex Portable Unit for Denmark
	SPMF-P1EU	SPM Flex Portable Unit for Europe
	SPMF-P1GB	SPM Flex Portable Unit for Great Britain
	SPMF-P1JP	SPM Flex Portable Unit for Japan
	SPMF-P1US	SPM Flex Portable Unit for North America

Optional Accessories

SPMF-WAND	Sample Wand Kit
SPMF-STRP	Clean Room Suitable Shoulder Strap
SPMF-HNDL	Handle for Portable configuration
SPMF-WTHR	Weather Shield for use in Fixed configuration

Questions? Contact Honeywell Analytics For More Information.

ChemCassettes (Required)

Up To 2 Week	1265-4000	SPM Flex CC-S XP Hydrides
	1265-4001	SPM Flex CC-S XP Mineral Acids
	1265-4002	SPM Flex CC-S XP Chlorine
	1265-4003	SPM Flex CC-S XP Ammonia
	1265-4004	SPM Flex CC-S Fluorine Oxidizers
	1265-4005	SPM Flex CC-S Sulfur Dioxide
	1265-4006	SPM Flex CC-S Diisocyanates
	1265-4007	SPM Flex CC-S XP Phosgene
	1265-4008	SPM Flex CC-S Hydrazine
	1265-4009	SPM Flex CC-S Hydrogen Cyanide
	1265-4010	SPM Flex CC-S Hydrogen Peroxide
	1265-4011	SPM Flex CC-S Ozone
	1265-4012	SPM Flex CC-S-U XP Mineral Acids
Up To 30 Days	1265-3004	SPM Flex CC Fluorine Oxidizers (30)
	1265-3005	SPM Flex CC Sulfur Dioxide (30)
	1265-3006	SPM Flex CC Diisocyanates (30)
	1265-3008	SPM Flex CC Hydrazine (30)
	1265-3010	SPM Flex CC Hydrogen Peroxide (30)
	1265-3011	SPM Flex CC Ozone (30)
Up To 90 Days	1265-3000	SPM Flex CC XP Hydrides (90)
	1265-3001	SPM Flex CC XP Mineral Acids (90)
	1265-3002	SPM Flex CC XP Chlorine (90)
	1265-3003	SPM Flex CC XP Ammonia (90)
	1265-3007	SPM Flex CC XP Phosgene (90)
	1265-3012	SPM Flex CC-U XP Mineral Acids (90)

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How To Order (Optional)

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Accessories & Install Items

Power Supplies

SPMF-PWRS	Universal Power Supply (no cord)
874333	North America (120VAC) Power Cord
874557	Australia Power Cord
874558	Great Britain
874559	Denmark
874560	Switzerland
874561	Europe
1874-0112	Japan (100VAC)

Install Accessories

SPMF-PCON	6' Power Cable with Weather proof connector
SPMF-ECON	10' Ethernet Cable with Weather proof connector
SPMF-CCON	Communication SPM Flex side connector and 6' communication cable with Weather proof
1265-2014	SPM Flex Optics Test Card
0235-0095	Union fitting - use to connect disposible end of
102599	Tubing 1/4" O.D x 1/8" I.D. FEP - for sample
100440	Tubing polypropylene 1/4" O.D. x 3/15" I.D - for

Mounting

SPMF-MBST	Standard Mounting Bracket for Fixed Unit
SPMF-MBRF	Retro-Fit Mounting Bracket for Fixed Unit (compatible with original SPM)

Service Parts

Electrical Spares

1265A0070	Main PCB
1265A0074	User interface / display PCB
1265-0153	User interface ribbon cable
1265A0080	RFID PCB
1265A0321	RFID/Hall Effect cable assembly
1265A0511	Hall effect PCB
1265-0167	9 Cell Battery pack (factory only)
0140-0013	Coin battery CR2302 Energizer

Mechanical Spares

1265A0413	Pump
1265A0404	Optics and Gate motor assembly
1265A0422	Tape advance stepper motor
1265-0035	Clear door
1265A0182	Replacement latch assembly for clear door
1265-0082	Power switch / USB cover
1265-0165	Warning label for power switch / USB cover
1265-0036	Clear door gasket
SPMF-DCET	Dust cover For Ethernet port SPMF-DCET
SPMF-DCCO	Dust cover For Comm port SPMF-DCCO
SPMF-DCPO	Dust cover For power port

Consumables

1991-0147	Corrosive end of line filter
780248	Standard end of line filter
871134	Small acid scrubber / filter
710235	Standard size acid scrubber / filter

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Portable Accessories

Honeywell

Sample Wand Kit

SPMF-WAND

For use with portable units, the sample wand kit enables users to pinpoint pesky leaks, and the integrated holder within the handle provides a convenient way to install inline filters.

Cleanroom Suitable Strap

SPMF-STRP

Made from cleanroom suitable materials, the SPM Flex STRAP is a great way to transport the unit.

Note that the handle accessory is required (SPMF-HNDL) due to the connection points required.

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Fixed Accessories

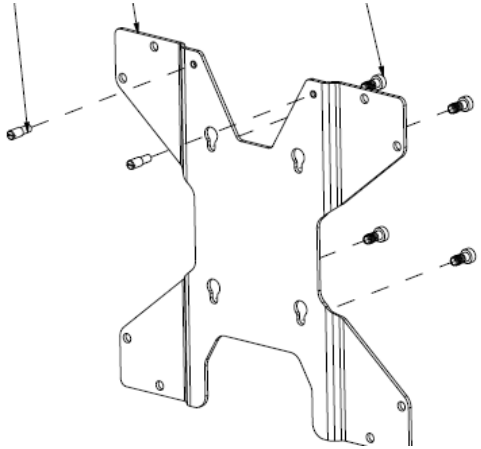
Honeywell

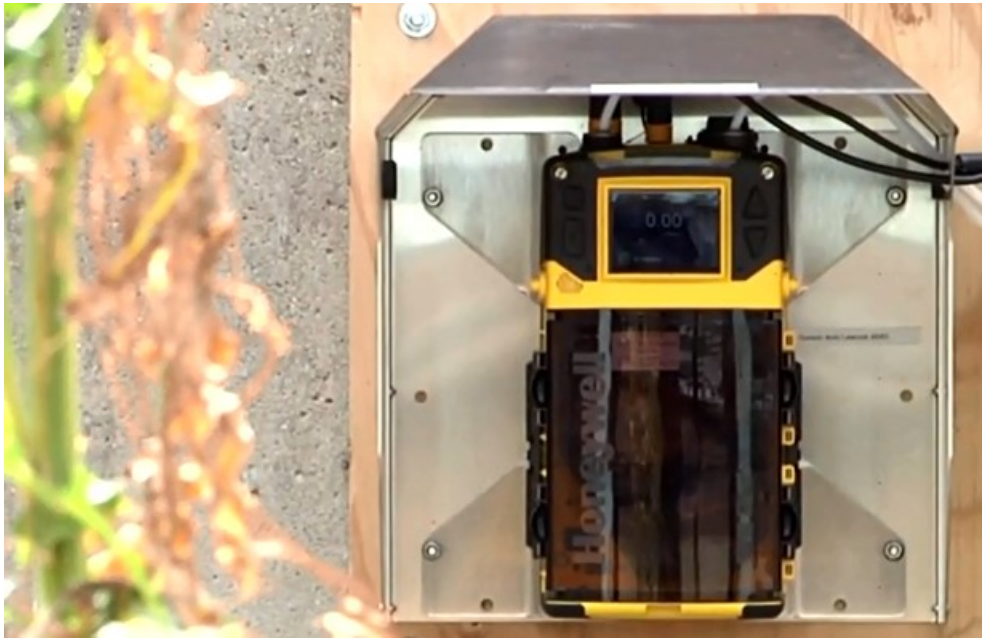
Mounting Bracket

SPMF-MBST or SPMF-MBRF

Need to mount the SPM Flex to the wall? No problem! The standard mounting bracket fits nicely behind the unit, and the key-hole design means the unit can easily be slid off the wall for maintenance or to go check for a leak.

Already have a legacy SPM? We can handle that too. The retrofit bracket (SPMF-MBRF) will work in the existing holes.

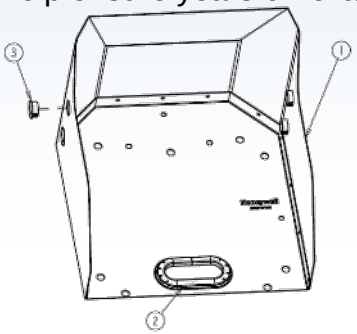




Weather Shield

*SPMF-WTHR**

Installing your unit outdoors? While the unit is IP-65 rated we highly recommend protecting it from the sun and rain. We can provide a custom weather shield which will help ensure years of reliable use.



** Also requires mounting bracket*

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New Standard In Portable Gas Detection

Honeywell

- **Highly Automated, Intuitive Operation**
  - Automation Improves Safety, Accuracy, And Usability
  - RFID On Tape Sets Calibration And Flow Control
  - Intuitive, Easy To Understand User Interface

- **Flexible Application And Rugged Design**
  - Portable & Fixed Means Less Spares And Training
  - Industry Leading Gas Selection; Up To 90 Day Tapes
  - Software Enables Maximum Configurability

- **Easy To Service, Reliable Use**
  - Critical Components Serviceable In Under 5 Min
  - Stands Up To Changes In Temperature And Humidity
  - Built For Long Lasting Operation, Backed By Honeywell

Advanced Capabilities, Ready When You Are!

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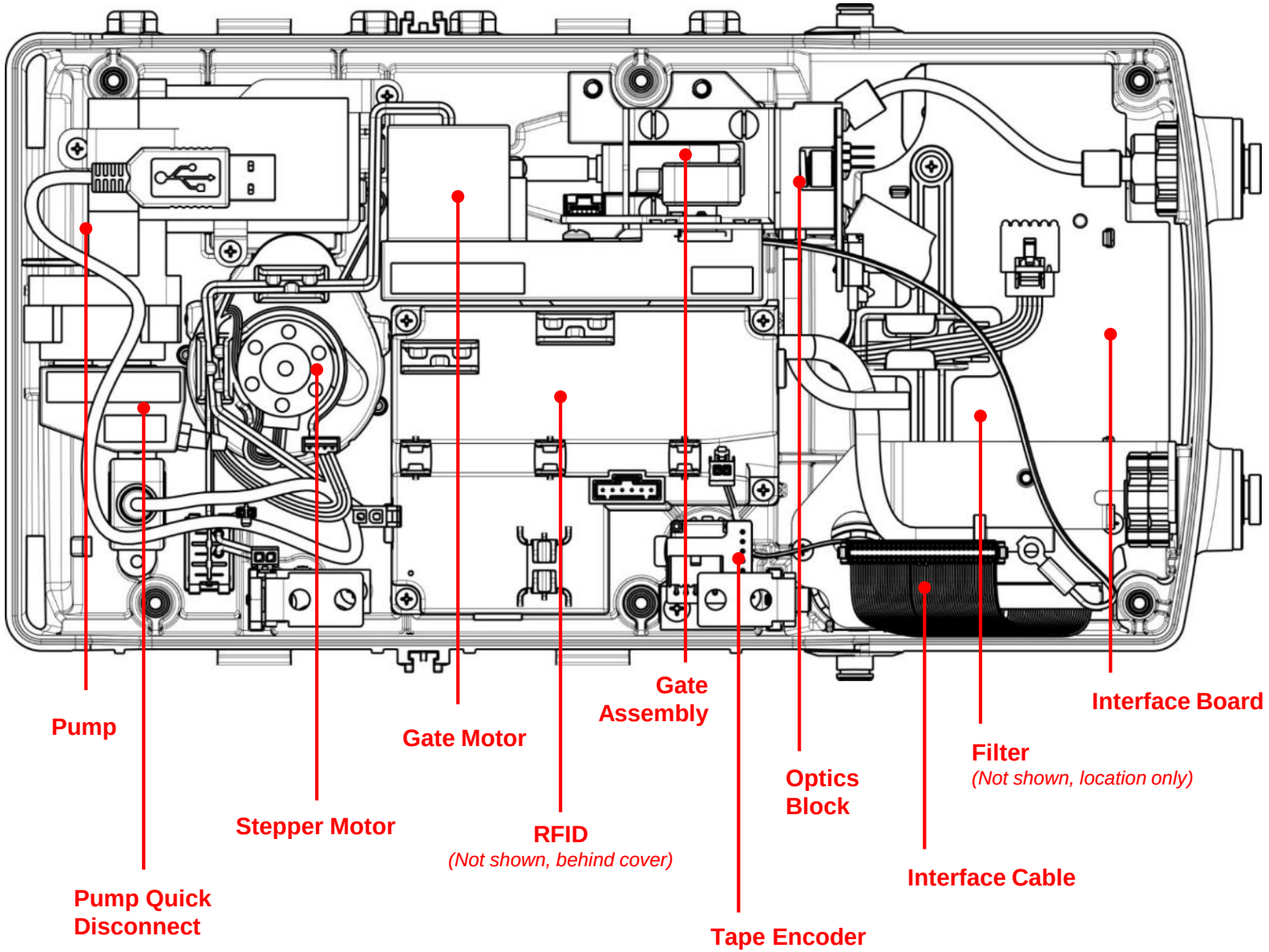
0.000
Hydrogen Fluoride
In monitor
Honeywell
Advanced Capabilities.
Ready When You Are!

Key Components: Top Assembly

Honeywell



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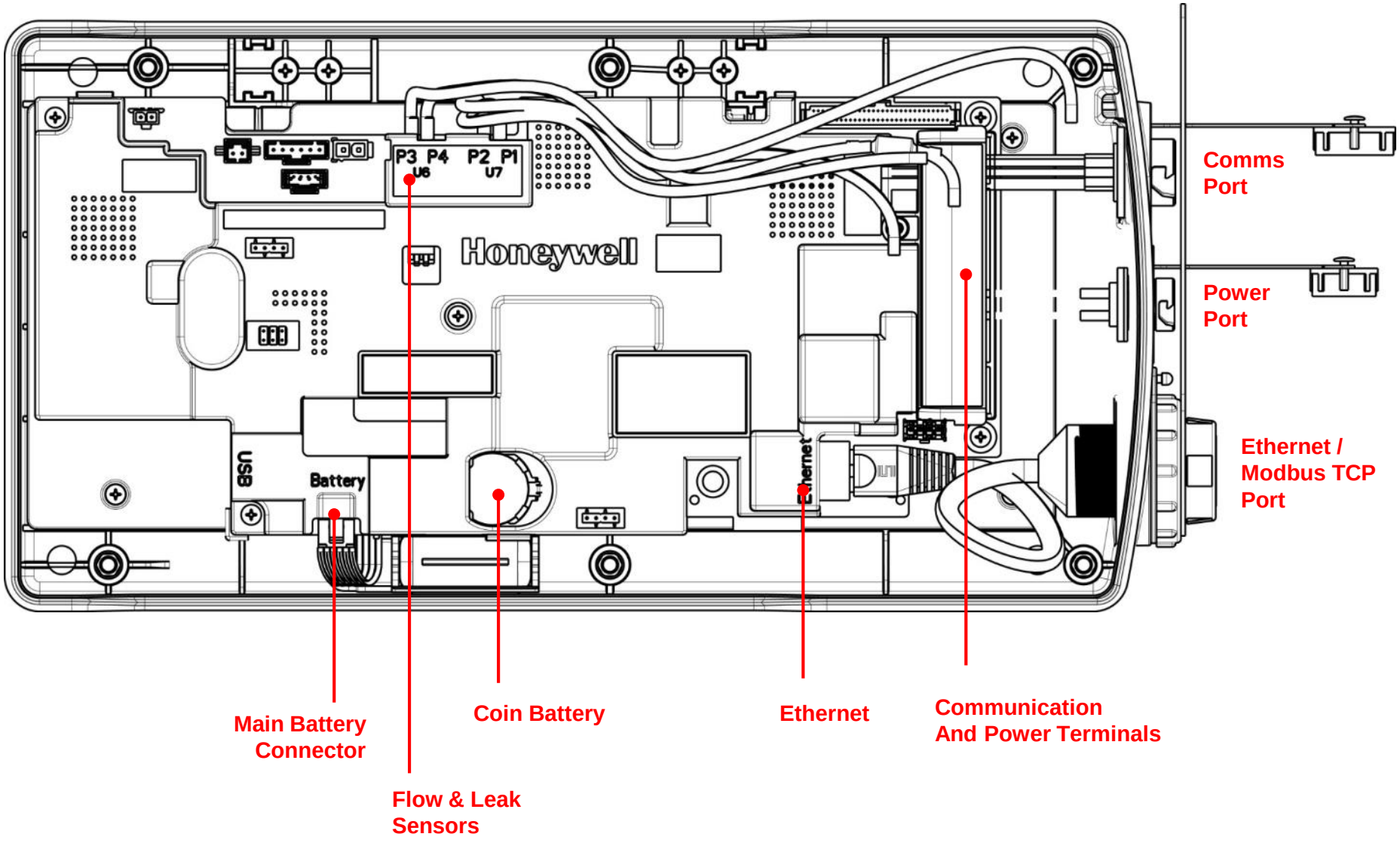
Key Components: Bottom Assembly



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Frequently Asked Questions

Honeywell

Q: What are the advantages of the SPM Flex versus my current SPM or TLD?

A: The SPM Flex has been designed from the ground up to be the most flexible, user-friendly portable detector for low level toxics available today. The unit starts up quickly and all necessary operating information is stored on the ChemCassette – no more ChemKey's or feeding of tapes – so you can quickly respond to an alarm. Additionally, thanks to the intuitive user interface your employees can take advantage of its advanced capabilities – no expertise required!

Q: What are the advantages of the SPM Flex versus other competitor products?

A: The SPM Flex has a number of features which set it apart from the competition. Its crisp full color LCD display and LED status bar allow you to quickly see the condition of the unit - even from a distance – and that same information is available remotely via the built in web page access! And, while you're there, export the up to 90 days of event history which is stored via the units on-board memory.

Q: Is it a fixed or a portable unit?

A: Both! The SPM Flex shines as a portable unit, but with up to 90 day tapes, and the ability to hardwire communications and power connections it also performs well as a fixed or semi-fixed unit, which means less training and fewer spare parts. And, every unit comes with a battery, so even if you lose power you're still protected.

Q: Is there any calibration required?

A: Thanks to the RFID enabled ChemCassette, all necessary calibration information is updated automatically including flow control and default alarm set points, so all you have to do is choose the right ChemCassette, pick the gas you want from the on-screen menu, and go.*

Q: What are the operating parameters?

A: The SPM Flex is a rugged, purpose built piece of equipment. Its weatherproof design (IP-65 rated) means it's well equipped to withstand changes in temperature and moisture, and thanks to its Teflon coating, it doesn't attract dust so it's cleanroom safe. And, if it's ever exposed to toxic gas or caustic liquid just hose it down or use a decontamination wipe.

Operating temperature ranges from 0°- 40°C (32°-104°F), which is largely limited by the ChemCassette technology. Note that ChemCassette tapes should be stored at less than 0°C (32°F) when not in use, and are typically shipped with a shelf life of approximately 12 months.

Q: Can I set custom configurations?

A: The SPM Flex is highly customizable, including up to four levels of user access rights, giving administrators unparalleled control. Users can also set individual gas parameters for settings such as LDL, and Alarm Levels 1 and 2. Once you have those configurations set, quickly deploy them across multiple units using the USB.

** For elevations in excess of 3,000ft above sea level some adjustments may be required.*

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Frequently Asked Questions

Honeywell

Q: What ChemCassettes are available?

A: Honeywell Analytics is proud to offer a wide range of detectable gases on ChemCassettes at launch in both two week, thirty day, and ninety day configurations. At launch You can expect our full range of typical semiconductor gases, including Hydrides, Mineral Acids, Oxidizers, and Amines. We're also pleased to offer popular Industrial gases such as Phosgene, and if you don't see a gas you're looking for be sure to check with us as we continue to roll out new calibrations.

Q: What maintenance is required?

A: Periodic preventative maintenance is strongly recommended in order to keep the SPM Flex running smoothly. Activities include replacing filters, checking for system leaks, and verifying optics and other mechanical elements are working as expected – all of which are easily performed by the user. Refer to the manual for a detailed service schedule.

Q: What is serviceable by the end user?

A: Most of the critical components in the SPM Flex have been designed to be user serviceable in under five minutes including the pump, filters, stepper motor, and gate motor. Notable exceptions include the battery and the main PCB board which should be serviced by Honeywell Analytics. However, one thing you'll never have to send the unit back for is updating the software – just download it from our website and update it via the USB. Refer to the manual for detailed service information.

** Users should contact a qualified electrician for details and to ensure any installation complies with local regulations."*

Q: What type of battery is included?

A: The SPM Flex comes standard with a lithium-ion battery pack that provides continuous operation of up to 12 hours depending on sampling conditions and unit configuration, and takes approximately 4 hours to charge. The battery is estimated to have approximately 4 hours of life at full charge after 1000 cycles.

Q: What are the power requirements?

A: The SPM Flex comes standard with an external power supply that can be plugged into a standard wall outlet, and features a fully weatherproof connector. For fixed applications a 1" conduit connection can be used to supply power. *

Q: What communication protocols are available?

A: The SPM Flex comes standard with a wide range of communication protocols for integration into building management systems including Modbus TCP over Ethernet, 4-20mA, and relays (3x - fault, alarm, and user configurable). Additionally, the USB port can be used to extract event history, configure device settings, and even update the software.

Q: What certifications are available?

A: As a global product, the SPM Flex was tested and certified for use by UL to applicable USA, Canadian and European (LVD and EMC) requirements for safety in non-hazardous locations. It was also tested by UL for applicable FCC, IC and NOB requirements for the radio frequency ChemCassette identification. At this time it is not class 1 div 2 certified, and should not be used in potentially explosive environments.

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Internal Honeywell Use Only

Product Comparisons

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SPM Flex Key Feature Updates

Honeywell

	Before	Today
Flow Control	• Manual, Set At Factory	• Automatic, Optimized To Tape
Optics Verification	• Calibration With Optics Card	• Self Monitoring, Never Needs Calibration
Software Update	• Return To Honeywell: 2 - 4 weeks	• Download Via The Web: 5 min
Gas Information	• Tape + Separate ChemKey Required	• Stored On Cartridge With RFID
User Customization	• Limited, New ChemKey Required	• Full Customization Via Software
Start Up	• Highly Manual, Multiple Parts, Training Required	• Highly Automated, Up And Running In Under 2 Min
Serviceability	• "Rats Nest", Old Hard To Source Components	• Modular, Key Components Serviceable In Under 5 Min
Weight	• Up To 30 Pounds	• Approximately 10 Pounds

SPM

TLD

SPM Flex

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SPM Flex Customer Value Drivers

Honeywell

	User Value			Products	
	Safety & Hygiene	*Emergency Response*	*Facilities & Maint.*	*SPM Flex*	*Competitors*
Speed Of Response	⚪	🔴	🟡	• **Up And Running In Under 5 Min**	• **As Much As 30 Minutes**
Ease Of Use	🔴	🔴	🔴	• **Highly Automated To Reduce Training And Operator Workload**	• **Most Functions Manual, User Error Common**
Clear Status Indications	⚪	🔴	🟡	• **High Visibility, Even Far Away**	• **Small Monochrome Screen**
Flexible Configuration	🔴	⚪	🔴	• **Same Base: Fixed Or Portable**	• **Multiple Units Needed**
Data Tracking Capability	🔴	⚪	🟡	• **Built In Data Logging**	• **Some Capability Via SD Card**
Highly Configurable	🔴	⚪	🟡	• **Software Enabled User Customization**	• **Factory Configuration Only**
Rugged / Durable	⚪	🟡	🔴	• **Purpose Built, IP65 Rated**	• **Mixed, Fixed Unit Strong, Portable Less Capable**
Easy To Service	⚪	🟡	🔴	• **Key Components In Under 5 Min**	• **Older Components Difficult To Source**

🔴 Critical / High Value

🟡 Helpful, But Not Mandatory

⚪ Low Impact / Value

SPM Flex ***CLPX*** ***CL1***

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Portable Competitors: Specs

Honeywell

	SPM Flex	TLD	SPM	CLPX
List Price	**$8,100 - 9,375**	~$5,000	~$6,900	$6,700
Company	Honeywell	Honeywell	Honeywell	DOD Technologies
Size	13.2”L x 7.2W x 6.4T	TLD 8”x8”x 9”	SPM: 12”x12”x 8”	11.0”L x 4.0W x 8.5T
Weight	~10.5 lbs with handle	TLD ~9lbs	SPM: Up to 25lbs	~6 lbs
Display	**Full Color LCD**	Single Line LCD	Single Line LCD	Backlit Monochrome
Alarm	**LED / 90+DB buzzer**	Light/Audible	Light/Audible	85db buzzer
Comms	**4-20mA, 3x Relays, Modbus TCP/IP, Web**	2x Relays	RS422, 3x Relays	None
Data Storage	Rolling 90 Days	External via 4-20mA	External via 4-20mA	Micro SD Card
Op Temp	0 to 40C*	0 to 40C*	0 to 40C*	**5 to 35C**
Weatherproof	**Yes, IP65 Rated**	No	NEMA 4X Enclosure	No
Gases	~30 Gases, **Custom Lvls**	~30 Gases, 50+ CKs	~30 , 50+ CKs	~20, Built In Cals
Tape Lengths	Up to 90 day	15 day	Up to 90 day	15 day
Haz Areas	Not Currently	No	**Z-purge option**	No
Tape Saver	Duty Cycle In Process	no	Yes, Option	No

** for most gases*

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Fixed Competitors

Honeywell

	SPM Flex	CL1
List Price	$8,100 - $9,375	$7,500
Company	Honeywell	DOD Technologies
Size	13.2”H x 7.2W x 6.4T	12.5”H x 10.3W x 9.0D
Weight	Unit 9.1 lbs, bracket 3.4 lbs	~30 lbs
Display	**Full Color LCD**	Backlit monochrome LCD
Alarm	**LED / 90+DB buzzer**	Light/Audible option
Comms	**4-20mA, 3x Relays, Modbus TCP/IP, Web**	4-20mA, Relays
Data Storage	Rolling 90 Days	SD Memory Card
Op Temp	0 to 40C*	5 to 40C*
Weatherproof	Yes, IP65 Rated	NEMA 4X
Gases	**~30 Gases, Custom Lvls**	~20 Gases
Tape Lengths	Up to 90 day	Up to 60 day
Sample Distance	Up to 100 ft total in/out	**Up to 150 ft in / 25 ft out**
Haz Areas	Not Currently	**Z-Purge Option**
Tape Saver	Duty Cycle In Process	Yes

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SPM Flex vs. CL1

Honeywell

Key Specs

	SPM Flex	CL1
List Price	$8,100 - $9,375	$7,500
Company	Honeywell	DOD Technologies
Size	13.2"H x 7.2W x 6.4T	12.5"H x 10.3W x 9.0D
Weight	Unit 9.1 lbs, bracket 3.4 lbs	~30 lbs
Display	Full Color LCD	Backlit monochrome LCD
Alarm	LED / 90+DB buzzer	Light/Audible option
Comms	4-20mA, 3x Relays, Modbus TCP/IP, Web	4-20mA, Relays
Data Storage	Rolling 90 Days	SD Memory Card
Op Temp	0 to 40C*	5 to 40C*
Weatherproof	Yes, IP65 Rated	NEMA 4X
Gases	~30 Gases, Custom Lvls	~20 Gases
Tape Lengths	Up to 90 day	Up to 60 day
Sample Distance	Up to 100 ft total in/out	Up to 150 ft in / 25 ft out
Haz Areas	Not Currently	Z-Purge Option
Tape Saver	Duty Cycle In Process	Yes

Value Drivers

SPM Flex	CL1
Ease Of Use	
• Highly Automated To Reduce Training And Operator Workload	• Most Functions Manual, User Error Common
Clear Status Indications	
• High Visibility, Even Far Away	• Small Monochrome Screen, Light Tree Needed
Flexible Configuration	
• Same Base: Fixed Or Portable	• Multiple Units Needed
Data Tracking Capability	
• Automatic Built In Data Logging	• SD Card
Configurable	
• Software Enabled User Customization	• Factory Configuration Only
Durability	
• Purpose Built, IP65 Rated	• NEMA 4 Enclosure
Serviceability	
• Key Components In Under 5 Min, Backed Up By Global Service Org	• Older Components Difficult To Source

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CL1 Certification Issues

Honeywell

Page 2 Of the DOD CL1 Manual

DECLARATION OF CONFORMITY

DOD TECHNOLOGIES INC.
740 McArdle DR. Unit C
Crystal Lake, Illinois 60014

We declare under our sole responsibility that the product described as:

ChemLogic 1 (CL1)

Complies with the requirements of the Directives:

- Machinery Directive 98/37/EC (amended);
- Low Voltage Directive 2006/95/EC
- Electromagnetic Compatibility Directive 2004/108/EC

Standards considered:

EN 12100-1, EN 12100-2, EN 60204-1, EN 61000-6-2, EN 61000-6-4

Date: 12 / 3 / 2007 **At:** 10:00 am

Daniel O'Donnell

EN12100 – 1, EN12100-2, and EN 60204-1 are machinery standards for the Machinery Directive. Gas detection equipment with primarily electric operation doesn't fall under this certification.

The standards considered don't show compliance with the Low Voltage Directive which is not legal.

EMC standards noted require no performance testing – they are just generic industrial standards. However, EN 50270, which most companies follow for gas detection equipment, requires performance testing.

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SPM Flex Advantages - Primary

Honeywell

Advantage	Who cares? Why?	What's It Worth?
Highly Automated / Easy To Use	• **Safety**: May go long periods of time without using the equipment, so easy to use = less room for mistakes = safer! • **Facilities**: People spend less time in training because its easy to learn	Easy and intuitive to use means people are more likely to use the equipment correctly or leverage advanced features. Also, training time is expensive. It takes people away from their day jobs, sometimes requires overtime to get done, and has to be refreshed every few years. How many people onsite will use the unit? What do they get paid (including overheads)? How long do they go between use?
Quick Start Up	• **Safety**: Respond faster to emergency / address a small problem before it's a big problem • **Facilities**: Get back to producing product quicker	For places where uptime = money, this is a huge deal. They probably know what time is worth, so how much of their process is impacted by an outage? A minute or two can be the difference between finding a leak in time or evacuating a building. And don't forget, once a building has been evacuated it's not just the restart time - you also have to deal with the old product that may need to be scraped.
Flexible Application Port / Fixed, Indoors / Outdoors	• **Safety:** Lots of flexibility on how to keep people safe, and locations covered no matter what changes are being made in a plant. • **Facilities:** Qualify one supplier, simplifies maintenance schedule, less spares needed.	What extra equipment do they have to keep in case of process changes (and how often do they make them)? How much capital is required for spares? How much time is spent qualifying or maintaining vendors?
Easy To Service, Backed By HON	• **Safety:** Reputable vendor that stands behind their products and can always provide service or expertise. • **Facilities:** In the event something breaks, quickly get it fixed and get back to work.	All the main components are serviceable in under 5 min - much faster than competitive products - and most items except for the battery are serviceable by the end user which can avoid a lengthy return process to the OEM. Do they keep extra units around for when one breaks and are they a drop-in replacement? What is their backup / validation for their detection systems? Are they in a location with service? How often do they have to send units back to the factory?

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SPM Flex Advantages - Secondary

Honeywell

Advantage	Who cares?	What's It Worth?
Highly Configurable	• **Safety**: Much easier to comply with site specific rules, or company policies. Also, updates via USB and the built in RFID mean they don't have to worry about being up-to-date. • **Facilities:** Unit can be tailored to a specific job or worksite, and with security in place its easy to ensure users only change what they really should be touching.	Harder to quantify, and will likely be on a case by case basis. That said… How often do they update corporate policies? How much customization are in those policies vs. standard NIOSH recommendations? How sensitive are their work areas? Do lots of people have access?
Rugged Design	• **Safety:** take the unit anywhere there is an emergency, and no need to baby it when you get there. • **Facilities:** Durable design means it will last for a long time.	Are their current units cleanroom compatible? Can they just spray them off? How much does the equipment get beat up, and does it maintain the correct calibration when it does?
Maximum Communications Options	• **Safety & : Facilities**: Many different ways to interact with the unit.	Built in webpage access is a major differentiator for the unit, and in certain applications Modbus TCP/IP could be a spec which competitors can't easily meet. Flexibility gives people a lot of options and helps future proof the product.
Superior User Experience	• **Any end user:** Use the equipment every day, so want it to be nice.	A strong industrial design makes the unit easier to interact with from up close or far away, when mounted or fixed (or semi-fixed), etc. which means users are more likely to be willing to use it. And, all things being equal, wouldn't you want the unit that's more updated and modern?

** for most gases*

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Certifications

Honeywell

Certification	Description	SPM Flex	SPM	TLD	CPLX	CL1
Safety – N. America	UL Certified for USA and Canada to UL 61010-1, 3rd Edition and CAN/CSA-C22.2 No. 61010-1, 3rd Edition	X				
Safety – Europe (Unit)	UL IEC CB Report for EN61010 3rd Edition (European LVD)	X				
EMC	UL Tested and Certified in: USA, Canada, Europe, Australia, Korea, Taiwan, Singapore, and China	X				
Radio Transmission	UL Tested and Certified in: USA (FCC), Canada (IC), Europe (R&TTE), Australia, Korea, Taiwan, Singapore, Malaysia, and China	X	N/A	N/A	N/A	N/A
Environmental	Meets all applicable European Directives including ROHS, WEEE, Packaging Directive, Battery Directive and REACH	X				
Safety	Intertek Certified for USA to UL 61010B-1, 1st Edition		X			
Safety – N. America (Battery)	UL Tested and Certified to UL 2054, 2nd Edition, UL 60950-1, 2nd Edition, and CAN/CSA-C22.2 No. 60950-1-07	X	N/A	N/A	N/A	N/A
Safety – Europe (Battery)	UL Report for IEC 62133, 1st Edition and EN 62133:2003	X	N/A (Lead Acid)	N/A (Lead Acid)	N/A (Lead Acid)	N/A (No Bat.)
None	No certifications			X	X	X

By Far The Most Comprehensive Set Of Certifications

** for most gases*

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DRAFT - NOT FOR RELEASE

Likely Objections

Based on early feedback from customers. Note that the semi-sarcastic tone of some answers is for reading amusement only and NOT an endorsement of how we actually suggest responding to customers… but every response here is true.

Honeywell

General

Vs. Key Competitors

The Flex has been designed to be highly ergonomic, and the portable version comes standard with a shoulder strap. Its *slightly* heavier than the TLD, but much lighter than the SPM. [No? Try arm curls…]	It Seems Heavy…	The CLPX Is Lighter…
On paper… but also less ergonomic, and a lot less capable. Pick up a CLPX and a Flex at the same time, and see if you still feel that way.		
We sell those too! That said, sometimes there's no substitute for paper tape due to cross sensitivities, physical evidence, or LDL's. Does your EC sensor get to the Arsine LDL?	I Like EC units…	The CLPX Boots Up Quickly...
But there's more to it than that… did you know that you're supposed to check the flow with a flow meter before each use? But I bet that's quick and easy…		
It's required to protect the unit, and in the event of a power loss ensures the unit reboots. I'm sure you have backup power systems, but do they always work… seamlessly?	It's fixed. Take the battery out and lower the price!	The CL1 Uses Off The Shelf Parts
Because there's no guarantee they'll be around in 10 years. The Flex is backed up by Honeywell. And by the way, we sold the last SPM for 30 yrs		
We addressed a lot of challenges with this unit, some of which took longer than expected to address.	You've been promising this for 2 yrs	The CL1 Is A Nice Unit
Actually, we agree. As a fixed unit, it's a solid piece of equipment. But, it has no portable capabilities, limited communications functionality, and zero certifications… It does, however, have a CE sticker with a web address to buy CE stickers…		
The SPM Flex is the worlds most advanced single point tape based gas detector - when you consider the value it provides, we think the unit speaks for itself.	It's A Lot Of Money For A Portable...	The CLPX Is Cheaper…
Yep…		

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Internal Honeywell Use Only

Frequently Asked Questions

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More Frequently Asked Questions

Honeywell

Q: I called to order a SPM/TLD. Why should I consider the SPM Flex?

As the newest member of the Honeywell Analytics toxic gas monitoring family, the SPM Flex has been designed from the ground up to be the most flexible, user-friendly portable detector for low level toxics available today.

Automation has been greatly increased, making it quicker, easier, and safer to use. We've also leveraged the same base unit, for both portable and fixed configurations, making it the most flexible monitor we've ever made.

[Refer to the sales presentation or brochure for additional details.]

Q: Does this replace the SPM or TLD…?

Yes, this product is ultimately designed to replace both the SPM and the TLD, albeit while greatly adding functionality, increased automation, and improved usability to provide a best in class experience.

Q: Why buy a new SPM / TLDs if the Flex is so great?

We understand that customers sometimes want a consistent experience across their fleet. The SPM and TLD remain tried and true products, and we take pride in their longevity. That said, we're also confident in the customer value the Flex creates, and once customers are ready to make the switch we'll work with them to ensure a smooth transition.

Q: … So when are you announcing End of Life (EOL) on TLD and SPM?

While we don't currently have a publicly announced EOL on those products, it doesn't make business sense to produce both the Flex and these very old (25+ years) units.

Once we're satisfied that SPM Flex production has stabilized, and we're consistently delivering on our commitments to customers, we will likely announce end of life plans. Consistent with past practices, we'll give adequate time for customers to place any final orders for new production units, as well as support any spares or consumables for at least five years. While we have no obligation to support ChemCassette tapes beyond that period, it has been our past practice to do so as long as it remains economically viable.

[We are tentatively looking to announced EOL plans in January 2015, with 6 to 9 months for any final new product buys]

Q: Are you doing a buyback program?

No, we don't have any plans to do a buyback program at this time. We've seen very strong interest, and we're confident in the customer value the Flex creates. Consequently, discounts and other incentives aren't in our current thinking.

[Customers with large fleets should contact their RSM to discuss any specific commercial considerations. RSMs have flexibility to offer certain terms, and buybacks will be weighed with other discounts to maximize the value captured by HA.]

Internal HA Only

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More Frequently Asked Questions

Honeywell

Q: What about discounts? I used to get a good discount on SPM/TLD!

As is typical with any new, highly in demand product, discounting is not a tool we're currently using. Both the SPM and TLD were established products – and while still very capable units – candidly were in need of a refresh to bring them up to today's standard… something we accounted for when pricing them.

[Again, customers looking to make large purchases should contact their RSM.]

Q: What comes in the box? Do I have to buy anything other than the unit?

All units come standard with battery, power supply / regional power cord, user manual on CD, and Quick Start Guide.

Depending on which configuration you go with, the SPM Flex comes packaged with different accessories. The Fixed unit includes a Standard Wall Mounting Bracket, while the portable unit includes a handle assembly, and clean-room suitable shoulder strap.

No matter what configuration is ordered, a SPM specific ChemCassette will also be required for operation.

Q: What about ChemKeys?

You won't be needing any of those with the SPM Flex! All the necessary information is built into the ChemCassette, and any custom configuration is handled by the unit.

Q: Can I install it via conduit?

A: Yes, an electrical connection can be made via 1" NPT conduit directly to the ports or via the connector. Please contact a local electrician to ensure compliance with local codes.

Q: I'm going to hardwire the unit. Can I take the battery out?

A: No, the battery is integral to the operation of the unit and cannot be removed by the user or HA.

Q: Does it have wifi?

A: Not at this time, but the team is looking at options to add that functionality in the future. However, we ultimately can't guarantee any non-released functionality.

[While we think this is something we want to do, we can't promise a delivery date, or even with certainty that we will do it. Likewise, no guarantees of backwards compatibility should be made. All that said, we see this as very do-able…]

Q: Is it approved for hazardous areas?

A: Not at this time. The SPM Flex has not been designed for (potentially) explosive environments are another matter. Currently, this isn't something we've incorporated into the design.

[This is also something we're looking at for future, and have reason to believe it could be done with some reasonable alterations to the unit. However, we have questions as to the viability of this market, so at this time we're really just in the VOC phases.]

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More Frequently Asked Questions

Honeywell

Q: Can I use a competitor's paper tape?

A: The SPM Flex is purpose built for life safety gas detection and is specifically designed to work with genuine ChemCassette tapes.

Honeywell Analytics takes our responsibility for protecting the lives of workers very seriously, and as such, we strongly object to the use of imitation tapes in any of our products, as we cannot (and will not) guarantee the performance of the device if used.

[And it wouldn't work anyway. The SPM Flex is the first product specifically built with an encrypted RFID to ensure a genuine ChemCassette is always used.]

Q: What is the lead time?

Our supply chain team is closely monitoring lead times during the first few months after launch. Longer term we expect lead times to be consistent with legacy SPMs or TLDs.

[We will be closely monitoring and communicating lead times. For large orders / exceptional demand, please communicate with the team prior to committing to a date.]

Q: Why doesn't it come with a ChemCassette? Is the first ChemCassette free?

No, a ChemCassette must be purchased in addition to the unit. Due to the wide variety of ChemCassettes offered we felt that this was the easiest option for our customers.

TBD - [While the first ChemCassette is not free, there will be a product registration card with the unit. We will send a voucher via email for a free 15 day ChemCassette to any customers who register their units online.

Q: Is there any start-up required.

No, the SPM Flex is designed to work straight out of the box. In fact, if you're using it as a portable, you should be up and running in a matter of a few minutes.

Q: Is the battery serviceable?

No, due to regulations regarding the battery it is not serviceable by the end user or even Honeywell Field Service Engineers. For units which require a replacement battery, they must be returned to the factory.

Q: When do I have to send it to the factory?

Rarely. Most components are easily serviceable in 5 min, and if you have a relatively clean environment it's unlikely you would need to send it in for cleaning.

The top three items most likely to require you to return a unit to the factory for service are 1) replacement of the main battery, 2) an issue with the PCB, or 3) cleaning for customers with challenging environments (such as diisocyanates).

[Issues with the PCB require factory service due to the "always on" nature of the board. In short, it's a safety thing!]

Q: How do the gases compare to SPM & TLD?

The SPM Flex has similar detection levels to the Vertex, and is therefore superior to the SPM or TLD. Please refer to [A PAGE WE'RE STILL WORKING ON] for more information.

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More Frequently Asked Questions

Honeywell

Q: Once A Custom Gas Setting Is Made, How Long Is It Kept?

As long as the same ChemCassette type is used, the last user settings will be maintained for all gasses within that ChemCassette type. However, once a user switches to a new ChemCassette type the gasses will start with the defaults from the gas tables.

Q: How long is the warranty?

The SPM Flex is warranted under proper use, 12 months from the date of first turn-on or 18 months from delivery, whichever is less. ChemCassette cartridges® are warranted for until the expiration date printed on each package and tape reel.

Q: Do we have low level HF, and what is the process for ordering it?

Because the calibration is stored on the RFID, the ChemCassette is controlled, rather than the unit (or the software on the unit).

Standard calibration (ChemCassette - U, meaning unrestricted) for HF which does not require a license is 1265-4012 / 1265-3012). The low level HF tapes - 1265-4001 / 1265-3001 - do require a license and follow the normal approval process.

Q: Does it have Duty Cycle?

Currently no, but that is a popular option on the legacy SPM so we're looking at providing that as a future software upgrade. [Note that unreleased functionality cannot be guaranteed.]

Q: Can I use my old optics card?

No, the stain color is different, as is the shape and depth of this card. This is a new optics block, using a new LED, and therefore requires a new card to test. That said, optics verification is not required, so there isn't a reason why a user would ever need a card - it's for piece of mind and old habits only.

Q: Why don't I need to do optics verification?

The SPM Flex uses a closed loop optics verification system, meaning a reference diode measures the intensity of the LED, and takes into account - as well as corrects - any shifts that may naturally occur as the LED ages. This is part of the automation built into the SPM Flex that keeps users safer and improve accuracy.

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